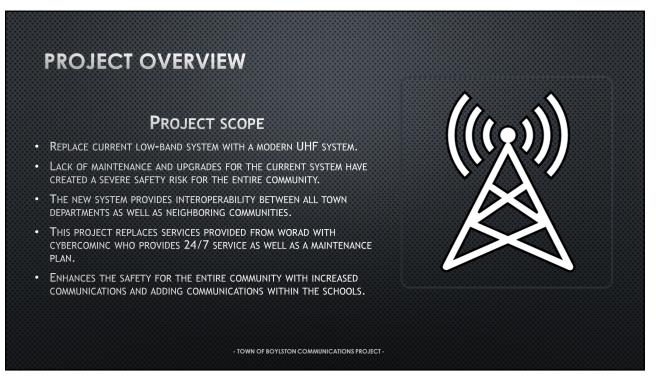


Τ



CURRENT COMMUNICATIONS SYSTEM – LOW BAND

- 30-50 YEARS OLD.
- CAR REPEATER BASED LIMITS CURRENT COMMUNICATION CAPABILITIES.
- Low band frequencies are effective for long distance communications in areas that are wide open and flat. For rural/residential communities it's not effective.
- LOW-BAND IS NO LONGER SERVICEABLE (CANNOT PURCHASE NEW EQUIPMENT, ONLY SECOND HAND)
- NO BACK-UP PLAN WHAT DO WE DO IF THE CURRENT SYSTEM FAILS?
- COMMUNITY, FIRST RESPONDERS, SCHOOLS, BUSINESSES ARE ALL AT RISK.



- TOWN OF BOYLSTON COMMUNICATIONS PROJECT -

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NEW COMMUNICATIONS SYSTEM – SIMULCAST UHF

- Police & Fire 2 Channel, 3 Simulcast Site, 1 RX only Site
- HIGHWAY & LIGHT DEPARTMENTS 2 STAND ALONE REPEATERS
- DISPATCH 2 OPERATOR POSITIONS, 12 CHANNEL CAPABILITY
- FROM MOTOROLA

Boylston Townwide Communica	ations Upgrade:	
	Dispatch Console:	\$ 247,900
	Communications System:	\$ 1,068,900
	Subscriber Radios:	\$ 489,000
		\$ 1,805,800.00

There have been **significant** price increases since this was originally proposed in 2019, additionally, the scope of the work including sites, towers, frequencies, etc has changed since then. These prices assume the system will be ordered between July 1 and September 30, 2022. - Motorola

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NEW FREQUENCIES

- TRANSITIONING FROM LOW-BAND TO UHF
- MODIFICATION OF THE CURRENT FIRE UHF
 FREQUENCY WHICH ALLOWED US TO ACQUIRE
 THE NEWLY ISSUED FREQUENCIES
- THIS ALLOWS US TO HAVE A CHANNEL FOR INVOLVED TOWN DEPARTMENTS & A GENERAL COMMUNICATIONS CHANNEL BETWEEN ALL DEPARTMENTS
- PROVIDES THE ABILITY FOR ALL TOWN
 DEPARTMENTS TO COMMUNICATE WITH EACH
 OTHER
- PROVIDES THE ABILITY FOR COMMUNICATIONS WITH SURROUNDING CITIES AND TOWNS
- WILL HAVE THE ABILITY FOR COMMUNICATIONS IN LARGE BUILDINGS AND SCHOOLS

Action Performed	Frequency	Loc#	Ant#	Freq ID	Station Class	Units	Paging Outp Rec. Pow	ut Maximun er ERP
	000472.15000000	1	1	1	FB2	1	50.00	0 80.000
Add	000472.71250000	1	1	2	FB2	1	50.00	0 80.000
Add	000472.40000000	1	1	3	FB2	1	50.00	0 80.000
Add	000471.11250000	1	1	4	FB2	1	50.00	0 80.000
Add	000475.15000000	1	2	1	FX1	1	50.00	0 50.000
Add	000475.71250000	1	2	2	FX1	1	50.00	0 50.000
Add	000475.40000000	1	2	3	FX1	1	50.00	0 50.000
Add	000474.11250000	1	2	4	FX1	1	50.00	0 50.000
Mod	000475.15000000	2	1	1	FX1	1	50.00	0 50.000
Add	000475.71250000	2	1	2	FX1	1	50.00	0 50.000
Add	000475.40000000	2	1	3	FX1	1	50.00	0 50.000
Add	000474.11250000	2	1	4	FX1	1	50.00	0 50.000
Add	000472.15000000	2	2	1	FB2	1	50.00	0 80.000
Add	000472.71250000	2	2	2	FB2	1	50.00	0 80.000
Add	000472.40000000	2	2	3	FB2	1	50.00	0 80.000
Add	000471.11250000	2	2	4	FB2	1	50.00	0 80.000
	000472.15000000	3	1	1	MO	30	50.00	0 50.000
0	000475.15000000	3	1	2	MO	30	50.00	0 50.000
Add	000475.71250000	3	1	3	MO	30	50.00	0 50.000
Add	000475.40000000	3	1	4	MO	30	50.00	0 50.000

- TOWN OF BOYLSTON COMMUNICATIONS PROJECT -

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NEW FREQUENCY LOCATIONS

- LOCATIONS ARE SPECIFIC TO OUR NEW FREQUENCIES:
- SITE 1 POLICE STATION: THIS IS AN ESSENTIAL
 COMPONENT TO THE SYSTEM AS IT IS THE HIGHEST
 POINT IN TOWN. THIS SITE WILL HAVE A
 MICROWAVE LINK TO THE STILE'S ROAD TOWER.
 THIS LOCATION WILL REMAIN HERE EVEN IF A
 NEW PUBLIC SAFETY BUILDING IS BUILT.
- SITE 2 FIRE DEPARTMENT: MAY REMAIN ON SITE OR BE MOVED TO THE NEW FACILITY LOCATION FOR MINIMAL COST
- SITE 4 TAHANTO HIGH SCHOOL.
- SITE 5 STILES ROAD WATER TANK: THIS IS ALSO ANOTHER ESSENTIAL COMPONENT AS IT PROVIDES COVERAGE FOR THOSE AREAS IN TOWN NOW WHERE COVERAGE IS MINIMAL.



- TOWN OF BOYLSTON COMMUNICATIONS PROJECT -

CYBERCOMINC.



- CYBERCOM REPLACES WORAD AND PROVIDED 24/7 SERVICE WHEN NEEDED.
- QUOTE (SEE HANDOUT)
- CYBERCOM'S SCOPE FOR THE PROJECT:
 - AS WE SPOKE ABOUT ON THE PHONE, THE FINAL SYSTEM DESIGN IS STILL MAKING ITS WAY THROUGH ENGINEERING AND VETTING ON OUR END. THAT SAID, HERE ARE SOME FIGURES FOR THE MOTOROLA PORTION OF THE PROJECT. THIS WOULD BE IN ADDITION TO THE SERVICES PROVIDED BY THE TOWN OF BOYLSTON AND/OR CYBERCOM, INCLUDING BUT NOT LIMITED TO:
 - CIVIL (SITE WORK)
 - FIBER OPTIC AND/OR MICROWAVE
 - Tower construction
 - Control station antennas
 - DISPATCH RENOVATIONS
 - DISPATCH FURNITURE
 - PRIMARY AND BACKUP ELECTRICAL POWER
 - LICENSING & PERMITTING
 - SHELTER OR BUILDING IMPROVEMENTS OR CONSTRUCTION

- TOWN OF BOYLSTON COMMUNICATIONS PROJECT -

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CYBERCOMIN. QUOTES (CYBER (CYBER Town of Boylston \$3,390.00 \$3,390.00 \$3,390.00 \$3,390.00 \$3,630.00 \$7,260.00 \$2,150.00 \$2,920.00 \$100.00 \$100.00 \$55.00 \$55.00 \$70.00 \$1,065.00 \$8,600.00 \$5,840.00 \$100.0 \$100.0 \$55.0 \$55.0 \$3,680.00 \$1,065.00 MODIFIED HGTDSCR - MERCURY TEAM DESK SPINE SCREEN, FABRIC, "29"W SCREEN, FOR 20"W TEAM DESK" x 42"H, "EXTENDED PANEL WITH OUTSIDE CORNER BRACKET ON RIGHT HAND, TO CONNECT TO RETURN SCREEN AS PER DRAWING" 18 1 S21-1292-T20-N-LN MODIFIED HOTDSTRP - MERCURY TEAM DESK STORAGE BASE. "15 AMP POWER STRIP PDUS IN HUBS", PRO, FOR A 20"W TECH STORAGE UNIT, NO GROUMET 19 1 S21-1292-T20-N-R-N MODIFIED HGTDSTRP - MERCURY TEAM DESK STORAGE BASE, "15 AMP POWER STRIP POUS IN HUBS", PRO, FOR A 20"W TECH STORAGE UNIT, NO DEER TOP PACK MOUNT, I HIGH MERCHEY, GROUND MAR THE F XF MERCHEY, GROUND MAR THE F XF MERCHEY CONTRIBUTION OF THE PACK MARKET OF THE PACK MARKET OF THE PACK MARKET OF THE PACK MARKET OF THE MARKET O \$190.00 \$330.00 \$45.00 \$80.00 \$380.0 \$380.0 \$860.0 \$180.0 \$840.0 \$180.00 \$55.00 \$720.00 \$660.00 \$780.00 \$0.00 \$0.00 Subtotal List Price \$83,660.00 PSE 01 Discount Price \$66,091.00 Install 14,554.00 - TOWN OF BOYLSTON COMMUNICATIONS PROJECT -

BOYLSTON LIGHT DEPARTMENTS SCOPE

- RUNNING FIBER CABLE THROUGHOUT TOWN
- WILL RUN THE APPROPRIATE WIRING AND SET THE REQUIRED TELEPHONE POLES FOR THE STILES ROAD TOWER.
- HAS QUOTES OUT FOR FIBER; WE HAVE DISCUSSED WITH THE TOWN ADMINISTRATOR ABOUT PURCHASING THE FIBER WITH THE MONEY THAT HAS ALREADY BEEN ALLOCATED FOR THIS PROJECT.



- TOWN OF BOYLSTON COMMUNICATIONS PROJECT -